

Amendments to the Claims:

This listing of claims will replace all prior listings of claims in the application.

Listing Of Claims:

Claim 1 (currently amended): An apparatus for controlling a printhead of a [[A]]

printing apparatus which prints by relatively moving [[a]] the printhead [[on]] across a printing medium, comprising:

control means for feedback-controlling a carrier supporting the printhead by using an ideal speed and an ideal position;

carrier position detection means for detecting carrier position information to be referred to by said control means;

carrier speed detection means for detecting carrier speed information to be referred to by said control means; and

speed estimation means for calculating an estimated speed at a predetermined ratio by using the ideal speed referred to by said control means,

wherein said control means does not refer to, as speed information used for the feedback control, the carrier speed information detected by said carrier speed detection means, and refers to the ideal speed or the estimated speed until the carrier moves by a predetermined amount after start of operation.

Claim 2 (canceled).

Claim 3 (currently amended): The apparatus according to claim 1, wherein said control means ~~does not refer to, as speed information used for the feedback control, the carrier~~

~~speed information detected by said carrier speed detection means, and~~ refers to the estimated speed as 0 until the carrier moves by a predetermined amount after start of operation.

Claim 4 (original): The apparatus according to claim 1, wherein an independent value can be selected for each ideal speed as the predetermined ratio used for calculation by said speed estimation means.

Claim 5 (original): The apparatus according to claim 4, wherein the predetermined ratio used for calculation by said speed estimation means is set to a value which makes a difference between the estimated speed or the carrier speed information and the ideal speed fall within a predetermined range.

Claim 6 (currently amended): A method of controlling a printhead of a printing apparatus which prints by relatively moving [[a]] the printhead [[on]] across a printing medium, comprising:

 a control step of feedback-controlling a carrier supporting the printhead by using an ideal speed and an ideal position;

 a carrier position detection step of detecting carrier position information to be referred to in the control step;

 a carrier speed detection step of detecting carrier speed information to be referred to in the control step; and

 a speed estimation step of calculating an estimated speed at a predetermined ratio by using the ideal speed referred to in the control step,

wherein in said control step, the carrier speed information detected by said carrier speed detection step is not referred to, and the ideal speed or the estimated speed is referred to as speed used for the feedback control until the carrier moves a predetermined amount after start of operation.

Claim 7 (currently amended): An apparatus for controlling a printhead of a [[A]] printing apparatus which prints by relatively moving a carrier supporting [[a]] the printhead [[on]] across a printing medium, comprising:

encoder means for detecting carrier speed information and carrier position information;
control means for feedback controlling the carrier by using a predetermined speed profile;
and

storing means for storing speed infomation information corresponding to moving amount of the carrier,

wherein said control means feedback-controls the carrier by using the speed information stored in the storing means without referring to the speed information detected by the encoder means and with referring to an ideal speed or an estimated speed until the carrier moves in a predetermined moving amount from the start of movement, and feedback-controls the carrier by using the speed information detected by the encoder means after the moving amount of the carrier becomes greater than the predetermined moving amount.